

Brandeis University



Waltham, Massachusetts



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OFFICIAL PUBLICATION OF BRANDEIS UNIVERSITY



CATALOG ISSUE

1953-1954

GRADUATE SCHOOL OF ARTS AND SCIENCES

1953-54

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1953 - 1954

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BRANDEIS UNIVERSITY

Academic Calendar

1953

September 14, Monday	First term bill due
September 28, Monday	Registration of Graduate Students
September 30, Wednesday	Classes begin
October 2, Friday	No Classes
October 12, Monday	No Classes
November 11, Wednesday	No Classes
November 26, Thursday	Thanksgiving recess
November 30, Monday	Classes resume
December 23, Wednesday	Winter recess begins after last class

1954

January 4, Monday	Classes resume
January 25, Monday	Mid-year examinations begin
January 29, Friday	Second term bill due
February 4, Thursday	Mid-year examinations end
February 8, Monday	Second semester begins
February 22, Monday	No Classes
April 16, Friday	Spring recess begins after last class
April 26, Monday	Classes resume
May 31, Monday	Final examinations begin
June 7, Monday	No Classes
June 10, Thursday	Final examinations end
June 13, Sunday	Commencement Exercises

Table of Contents

	<i>Page</i>
I. Brandeis University	5
II. The Graduate School of Arts and Sciences	7
III. Degree Requirements	12
IV. Areas of Graduate Study	13
Chemistry	13
Musical Composition	15
Near Eastern and Judaic Studies	17
Psychology	19
Appendix A. Fellowships	21

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The Graduate School of Arts and Sciences

ABRAM LEON SACHAR, PH.D., LITT.D.

President of the University

MAX LERNER, A.M., PH.D.

Chairman of the Graduate School of Arts and Sciences

Faculty Committee of Graduate Studies

SAUL G. COHEN, M.A., PH.D.

Chairman, Committee of Graduate Studies in Chemistry, and Professor of Chemistry

SIMON RAWIDOWICZ, PH.D.

Chairman, Committee of Graduate Studies in Near Eastern and Judaic Studies, and Professor of Hebrew Literature and Jewish Philosophy

IRVING GIFFORD FINE, B.A., A.M.

Chairman, Committee of Graduate Studies in Music, and Associate Professor of Music

ABRAHAM H. MASLOW, M.A., PH.D.

Chairman, Committee of Graduate Studies in Psychology, and Associate Professor of Psychology

JOSEPH ISRAEL CHESKIS, A.M., PH.D.

Professor of Romance Languages and Literature

SVEND LAURSEN, PH.D.

Professor of Economics

FRANK EDWARD MANUEL, A.M., PH.D.

Professor of Modern History

HERBERT GOLDSTEIN, B.S., PH.D.

Visiting Associate Professor of Physics

CLARENCE Q. BERGER, A.B., A.M.

*Executive Assistant to the President
(Ex Officio)*

I

BRANDEIS UNIVERSITY

Brandeis University is named for the illustrious jurist, Louis Dembitz Brandeis, whose wisdom contributed to every aspect of the welfare of his country and his people. The founders of the University have been inspired by the challenge of Justice Brandeis' ideal of what a university should be:

“It must always be rich in goals and ideals, seemingly attainable but beyond immediate reach . . .”

“It must become truly a seat of learning where research is pursued, books written, and the creative instinct is aroused, encouraged, and developed in its faculty and students.”

“It must ever be mindful that education is a precious treasure transmitted — a sacred trust to be held, used, and enjoyed, and if possible strengthened, then passed on to others upon the same trust.”

UNIVERSITY AIMS

At the inaugural ceremonies in October, 1948, the aims of Brandeis University were stated by the first President, in the form of a three-fold promise. First, Brandeis will be an institution of quality where the integrity of learning, of research, of writing, of teaching, will not be compromised. An institution bearing the name of Justice Brandeis must be dedicated to conscientiousness in research and to honesty in the exploration of truth to its innermost parts.

Secondly, Brandeis University will be a school of the spirit — a school in which the temper and climate of the mind will take precedence over the acquisition of skills, and the development of techniques. Unyielding in the face of the defeatism which is inherent in the various phases of nihilism, Brandeis will be a dwelling place of permanent values — those few unchanging values of beauty, of righteousness, of freedom, which man has ever sought to attain.

UNIVERSITY AIMS

Finally, Brandeis will offer its opportunities of learning and of the cultivation of the heart to all. Neither student body nor faculty will ever be chosen on the basis of population proportions whether ethnic or religious or economic.

Brandeis University came into being because of the desire of the Jewish community to make a corporate contribution to higher education in the tradition of the great American universities which have stemmed from denominational generosity. By choosing its faculty on the basis of capacity and creativity and its students according to the criteria of academic merit and promise, the University hopes to create an environment which may cause the pursuit of learning to issue in wisdom.

UNIVERSITY ORGANIZATION

The University offers instruction in the College of Arts and Sciences leading to the degree of Bachelor of Arts. Full information on this program may be found in the General Catalog Issue.

Commencing with the academic year, 1953-54, Brandeis University will offer programs within the Graduate School of Arts and Sciences leading to Master's and Doctor's degrees.

This brochure seeks to describe the objectives, admission standards, programs and degree requirements established for the Graduate School of Arts and Sciences.

All correspondence pertaining to the Graduate School should be addressed to its Chairman, Woodruff Hall, Brandeis University, Waltham 54, Massachusetts.

II

The Graduate School of Arts and Sciences

OBJECTIVES

The underlying ideal of the Graduate School is to assemble a community of scholars, scientists and artists, in whose company the student-scholar can pursue studies and research as an apprentice. This ideal involves: individualizing programs of study, restricting the number of students accepted, maintaining continual contact between students and faculty, and fostering the intellectual potential of each student.

Degrees will be granted upon the evidence of intellectual growth and development, rather than solely on the basis of formal course credits. Fulfillment of the minimum requirements set forth below cannot, therefore, be regarded as the sole requisites for degrees.

AREAS OF GRADUATE STUDY

During the academic year 1953-54, courses of study will be offered in the following four areas:

Chemistry
Musical Composition
Near Eastern and Judaic Studies
Psychology

Details of the programs offered in these areas are given below. Specific course content may be obtained from the General Catalog Issue.

In succeeding years, the program will be extended to cover a number of other areas. Among the areas being considered for establishment in 1954-55 or shortly thereafter are: History of Ideas, Theoretical Physics, English and American Literature, Social Relations and American Studies. Official announcement of additional areas for 1954-55 will be issued no later than January 1, 1955. Supplementary faculty appointments will be announced in the summer of 1953.

ADMISSION

As a general rule only those men and women who have completed the normal four-year program leading to the Bachelor's degree with distinction will be considered for admission to the Graduate School. Graduates of foreign schools who have completed the equivalent of a Bachelor's degree program may apply, describing the educational program they have completed.

All applicants are advised, but not required, to take the Graduate Record Examination, including the Aptitude Test portion and preferably one Advanced Test in a field related to the proposed area of graduate study. Information on taking the Graduate Record Examination is available from the Educational Testing Service, P.O. Box 592, Princeton, New Jersey.

Specific requirements established by each area of study are to be found below. Each applicant should consult these requirements prior to filing an application.

APPLICATION PROCEDURE

Applicants who wish to enter the Graduate School should write to the Chairman stating which Area of Studies they intend to pursue.

An *Application for Admission* and catalog will be forwarded to the applicant who should return the completed form at once. The closing date for receipt of applications is May 15 although exceptions may be granted.

The applicant is also required (1) to arrange for the forwarding of an official transcript of his undergraduate and any graduate records and (2) to have forwarded two letters of recommendation, preferably from professors under whom the applicant has studied in the field of his proposed Area of Studies. Where necessary other materials or information will be requested.

Decisions on admission will be made not later than June 15.

PART-TIME STUDENTS

Applications will be considered for part-time resident study. Such applicants should state with their applications for admission why full-time residence is not possible, and how rapidly they propose to complete their work.

GRADUATE SCHOOL OF ARTS AND SCIENCES

SPECIAL STUDENTS

On occasion properly qualified persons who wish to take courses without working for a degree will be accepted. The *Application for Admission* form may be submitted without other supporting evidence in such instances.

FEES

The annual tuition fee for full-time resident students in the Graduate School is \$700. This fee is payable in two installments, one-half prior to registration in September, and the remainder prior to the beginning of the second semester.

Tuition fees for special students and part-time residents, who may be admitted with the approval of the Graduate School Chairman, will be pro-rated on the basis of \$20 per hour credit. These fees are payable prior to registration.

In addition to the tuition fee, students are required to pay a \$40 matriculation fee prior to registration, which also covers medical and health care and the use of the University library. Part-time students are eligible for these benefits, upon application to the Graduate School Office, Room 108, Woodruff Hall.

AUDITING COURSES

The privilege of auditing courses without fee is extended to regularly enrolled graduate students. The courses may be on either the graduate or undergraduate level. Students taking less than full-time work may audit courses by paying for them at the same rate as though they were taken for credit. Students desiring to avail themselves of auditing privileges may make the necessary arrangements through the Graduate School Office, and must then secure the permission of the course instructor.

HOUSING

The University does not offer graduate housing facilities. The Graduate School Office, however, attempts to serve as a clearing house for rooms and apartments available in Waltham and nearby Greater Boston communities.

GRADUATE SCHOOL OF ARTS AND SCIENCES

DINING FACILITIES

Graduate students may avail themselves of 15- or 21-meal weekly contracts in either the Castle Dining Hall or the Student Center Dining Hall. Individual meals may be purchased at either dining hall or light snacks at The B-Hive.

HEALTH

The University Health Office is charged with the responsibility of supervising student physical welfare. Payment of the required medical fee entitles students to utilize the facilities of the Health Office and to participate in the benefits of the University health insurance program. Under this arrangement the services of the University Health Office are supplemented by the consulting services of medical specialists.

The health insurance program helps defray expenses during the academic year for treatment beyond the scope of the Health Office. The details of this program are outlined in a separate pamphlet which will be distributed to students. It should be noted here, however, that this fee does not cover pre-existing conditions, extraordinary care, psychiatric care, optical and dental services or special materials.

Students should take note that the Health Office is financially responsible for the fees of outside doctors and hospitals only when consultations or hospitalization have been authorized by the University Health Office in advance on a form provided for this purpose. The University is not responsible for off campus medical and hospital care sought by students or their parents on their own initiative. Students are urgently requested to read the Health Office pamphlet with great care.

FINANCIAL AID

To help students of great promise, awards and work opportunities are available. These are granted on a competitive basis, with the size of the stipend adjusted to the financial need of the applicant. For consideration, it is necessary to file the *Application for Graduate Scholarship, Fellowship, or Teaching Assistantship*, along with all admission application material, on or before May 15.

The following opportunities are available:

Graduate Scholarships:

Such awards may vary from \$100 to full remission of tuition plus stipends ranging as high as \$600.

GRADUATE SCHOOL OF ARTS AND SCIENCES

Graduate Fellowships:

Designed to meet the needs of the more advanced student of great promise, Graduate Fellowships provide full remission of tuition plus stipends ranging to a maximum of \$1400.

Teaching Fellowships:

Benefactors of the University have established numerous Teaching Fellowships (listed below) to enable promising graduate students to gain teaching experience while continuing with their studies. The stipends vary with the hours of teaching and degree of responsibility and range up to full remission of tuition plus maximum stipends of \$1400.

Loan Funds:

Applications for loans, ordinarily available only after one year of residence, may be made to the Chairman of the Graduate School.

Proctorships:

Appointments as dormitory proctors are available to men and women. Interested applicants should address the Chairman of the Graduate School.

Employment:

On occasion the University offers part-time employment to specially trained personnel. Inquiries should be addressed to the Personnel Office of the University.

ACADEMIC REGULATIONS

Ordinarily a full-time resident student registers for five courses or their equivalent per academic year. Each course meeting 3 hours per week grants 3 credits per semester.

Registration:

All graduate students, whether full-time or part-time, must register with the Graduate School Office not later than the first day of classes of the academic year. A Study card must be filed not later than 14 days following the first day of classes, and must have the approval of the Area Chairman.

Course Standards:

Graduate students will be expected to maintain records of distinction in all courses. The Graduate School reserves the right to sever the connection of any student with the University for appropriate reasons.

III

DEGREE REQUIREMENTS

The following general requirements apply to the awarding of degrees. For the specific requirements of each Area of Studies, candidates should consult the appropriate section of this catalog.

MASTER'S DEGREES

In order to qualify for a Master's degree, the candidate must complete the equivalent of one full year of graduate study at Brandeis University, computed at a minimum of 24 semester hours of approved study plus a thesis. Certain areas may, at their option, substitute an additional six semester hours of graduate study in lieu of a thesis.

For programs of study, language requirements, examinations, and thesis requirements, consult the section of the catalog dealing with your proposed Area of Studies.

Candidates for the Master's degrees must file applications with the Graduate School Office no later than April 1 of the academic year. The application must have the written approval of the Chairman of the Area of Studies.

DOCTOR OF PHILOSOPHY DEGREE

In order to qualify for the degree of Doctor of Philosophy, a student must ordinarily complete a minimum of three years of graduate study, with his doctoral dissertation being submitted in the third year. Under certain conditions, credit for advanced standing will be granted for work taken in residence in graduate schools of other universities. Each Area of Studies reserves the right to require a candidate for the degree to perform work in excess of its minimum standards to assure thorough mastery of the area.

For programs of study, language requirements, examinations and thesis requirements, consult the section of the catalog dealing with your proposed Area of Studies.

Candidates for the Ph.D. degree must file applications with the Graduate School Office no later than April 1 of the academic year in which the degree is to be offered. The application must have the written approval of the Chairman of the Area of Studies.

IV

AREAS OF GRADUATE STUDIES

CHEMISTRY

Chairman: SAUL G. COHEN, Ph.D., Rita H. Aronstam Professor of Chemistry (Organic Chemistry) and Chairman, School of Science.

SIDNEY GOLDEN, Ph.D., Assistant Professor of Chemistry (Physical Chemistry); **STUART A. MAYPER**, Ph.D., Assistant Professor of Chemistry (Inorganic Chemistry); **ORRIE M. FRIEDMAN**, Ph.D., Lecturer in Chemistry (Biological Chemistry).

OBJECTIVES

The graduate program leading to the degree of Master of Arts in Chemistry is designed to offer a broad understanding of modern chemical knowledge. The program is a specialized one and students will be required to demonstrate their proficiency in advanced areas of inorganic, organic and physical chemistry. This may be accomplished by completing with distinction advanced lecture, seminar and laboratory courses which are offered in these fields. To avoid excessive specialization, related work in mathematics, physics and biology may be included in the program.

ADMISSION

The general requirements for admission to the Graduate School, as specified in an earlier section of this catalog, apply to candidates for admission to this Area of Studies. In addition, the undergraduate curriculum of applicants should include courses in physics and mathematics (differential and integral calculus), as well as courses in general, analytical, organic and physical chemistry. Admission to advanced courses and to candidacy for the Master's Degree will be based upon results of a qualifying examination which will be taken upon entrance. This examination will determine whether the student will be required to make up deficiencies in his preparation.

PROGRAM OF STUDY

Instruction will be offered in the following areas of chemistry:

Advanced Organic Chemistry

Introduction to Theoretical Organic Chemistry, Stereochemistry, Resonance, Molecular Rearrangements, Mechanisms of Organic Reactions.

AREAS OF GRADUATE STUDIES

Organic Synthesis

Synthetic Methods and Applications in the Chemistry of Natural Products.

Introduction to Theoretical Chemistry

Elementary Quantum Mechanics, Statistical Mechanics and Thermodynamics.

Advanced Inorganic Chemistry

Stereochemistry, Complex Compounds, Atomic Structure.

Chemical Kinetics

Kinetics of Homogeneous Reactions in Gas Phase and in Solution.

Advanced Chemistry Laboratory

Experiments designed to develop the student's technique in preparation for research.

Seminar

Biweekly lectures by guests, faculty and graduate students.

DEGREE REQUIREMENTS

Thesis

Each student will engage in a directed but individual original investigation in an area of his choice. At the present time members of the faculty are engaged in research in the following fields: Synthetic Organic Chemistry, Mechanisms of Organic Reaction, Chemistry of Free Radicals, Radio-active Tracers, Theoretical Chemical Kinetics, Non-Aqueous Solutions. Each student will be required to summarize the results of his investigation in an acceptable thesis. The thesis must demonstrate the competence of the student as an independent investigator, his critical ability and effectiveness of expression.

Language

Candidates for the degree of Master of Arts in Chemistry will be required to demonstrate a reading of German. In addition, some knowledge of French or Russian is required.

Residence

Thirty semester hours of work at the graduate level completed with distinction will be required. While generally this will be accomplished in two semesters and one summer of full-time study, it may in certain instances be accomplished in two semesters. Students holding teaching assistantships will normally work at a nine to eleven semester hour rate.

MUSICAL COMPOSITION

Chairman: IRVING G. FINE, M.A., Associate Professor of Music, and Chairman, School of Creative Arts.

LEONARD BERNSTEIN, M.A., Professor of Music and Director of the Festival of the Creative Arts; ERWIN BODKY, M.A., Assistant Professor of Music and Research Associate; HAROLD SHAPERO, A.B., Lecturer in Music.

OBJECTIVES

The graduate program in musical composition leading towards the degree of Master of Fine Arts is designed to assist composers towards creative fulfillment and towards the acquisition of deeper insight into the historical development of musical styles and techniques. Although it is primarily designed for composers, it is open to all properly qualified students possessing the necessary technical prerequisites for admission.

Only a limited number of students will be accepted for the graduate program in musical composition. The program leading towards the degree of Master of Fine Arts is an intensive one, and the degree itself is regarded as terminal for composers who at this point should be able to embark upon a professional career.

In the near future, the University plans to inaugurate a program of studies leading towards the Ph.D. in Music, this to be primarily in the field of musical scholarship. Further information regarding this program will be released at a later date.

ADMISSION

The general requirements for admission to the Graduate School, as specified in an earlier section of this catalog, apply to candidates for admission to this Area of Studies.

In addition to their undergraduate records, applicants will be required to submit evidence of qualification in the form of examples of advanced work in musical theory and original work in musical composition. This work should be submitted together with the formal *Application for Admission*.

All candidates for admission are expected to be proficient at the piano or on some orchestral instrument possessing a standard solo repertoire. Students should furnish information about this when making formal application. Evidence in the form of recordings or certification by properly qualified music teachers may also be submitted.

A reading knowledge of French, German or Italian is generally required of all applicants for admission.

AREAS OF GRADUATE STUDIES

PROGRAM OF STUDY

Among the course offerings planned are the following:

1. Twentieth Century Techniques:
Impressionistic and post-impressionistic harmony; systems and innovations of Schoenberg, Hindemith, Stravinsky and others; jazz techniques. Analysis and exercises.
2. Homophonic Forms:
The melodic phrase; studies in harmonic rhythm; trio forms, rondo forms, sonata forms, variation forms. Analysis and exercises.
3. Polyphonic Forms:
Advanced counterpoint, canon and fugue. Analysis and exercises.
4. Keyboard improvisation from the thorough bass:
Improvisation of thorough bass accompaniments of instrumental and vocal music of the Baroque period.
5. Seminar in Free Composition.
6. Seminar in Advanced Orchestration.
7. Seminar in Readings for the General Examinations.

DEGREE REQUIREMENTS

Language

Candidates for the degree of Master of Fine Arts must possess a reading knowledge of two of the following languages: French, German, Italian.

Instrumental Proficiency

At least moderate proficiency at the piano is required of all degree candidates.

Residence

Thirty-six semester hours of work at the graduate level completed with distinction are required of all degree candidates (one course meeting three hours per week for two semesters is counted for six hours credit).

Applicants who have done graduate work elsewhere may, at the discretion of the Area Chairman, receive credit for such work. Under any circumstances a minimum residence of one year's work at the graduate level is required of all candidates for the degree of Master of Fine Arts.

In general, the program should be completed in two academic years.

General Examinations

Candidates for the degree of Master of Fine Arts will be expected to pass with distinction in general examinations in musical theory, history and style at the time of the completion of their program of study.

Thesis

Candidates for the degree of Master of Fine Arts in Musical Composition are required to submit a thesis normally consisting of an original composition in a large form.

NEAR EASTERN AND JUDAIC STUDIES

Chairman: SIMON RAWIDOWICZ, Ph.D., Michael Tuch Professor of Hebrew Literature and Jewish Philosophy.

NAHUM N. GLATZER, Ph.D., Associate Professor of Jewish History; WOLF LESLAU, Ph.D., Associate Professor of Near Eastern Languages; LEO BRONSTEIN, Ph.D., Lecturer in the Fine Arts and Near Eastern Civilization.

OBJECTIVES

The graduate program in Near Eastern and Judaic studies leading to the M.A. and Ph.D. degrees is designed to further research and to train scholars in the various cultures of the ancient and modern Near Eastern peoples and of the ancient and modern Judaic civilization.

ADMISSION

The general requirements for admission to the Graduate School, as specified in an earlier section of this catalog, apply to candidates for admission to this Area of Studies.

PROGRAMS OF STUDY

Among the main fields in the area of Near Eastern and Judaic Studies on which courses will be given in the first year of the Graduate School are:

Hebrew Language and Literature, Classical, Medieval, and Modern. Jewish History.

Jewish Philosophy — Medieval (from 9th to 15th century) and Modern (18th to 20th century).

Semitic Languages.

Archaeology and History of Ancient Near East, including Palestine. Social and Economic History of the Modern Near East.

History of Near Eastern Arts.

Fields of study not listed here may be approved.

Students for the M.A. and Ph.D. in this Area may be required to attend courses conducted by other Areas.

AREAS OF GRADUATE STUDIES

DEGREE REQUIREMENTS

MASTER OF ARTS

Language

Every candidate for the degree of M.A. must show a reading knowledge in one Semitic Language, and in French or German. In special cases, another modern foreign language may be substituted for one of the two listed here. This requirement is to be satisfied by examination at the school not later than eight weeks before a candidate is to receive his degree.

Residence

Advanced students for the M.A. in this Area who can on admission give evidence of a satisfactory competence in one Semitic Language or in one particular field of Near Eastern and Judaic Studies will be able to complete the program for their degree in one year. Of less advanced students, additional resident study may be required.

Thesis

A thesis should be submitted not later than six weeks before the candidate is to receive his degree. In certain cases students for the M.A. may be allowed to substitute an additional six semester hours of graduate study (to the 24 semester hours normally required) in lieu of the thesis.

DOCTOR OF PHILOSOPHY

Language

Candidates for the Ph.D. in this Area must show a reading knowledge in one Semitic and in one modern foreign language as required by his special field of research. The Area reserves the right to require of a candidate a reading knowledge in an additional Semitic and in two modern foreign languages if required by his special field of research. The candidate must satisfy his language requirements not later than at the end of his first year of studies in the Graduate School.

Residence

While the residence required of Ph.D. candidates is two years, a longer residence may be required for part-time students and students holding teaching assistantships who will normally work at a reduced rate.

Thesis

The doctoral dissertation required of Ph.D. candidates may be submitted after two years of resident study in this Area. Prior to its submission, however, candidates will be required to pass an oral examination.

PSYCHOLOGY

Chairman: ABRAHAM H. MASLOW, Ph.D., Associate Professor of Psychology (on the Philip Meyers Foundation).

KURT GOLDSTEIN, Ph.D., Visiting Professor of Psychology; EUGENIA HANFMANN, Ph.D., Associate Professor of Psychology and Director of Psychological Clinic; JAMES B. KLEE, Ph.D., Assistant Professor of Psychology; WAYNE S. ZIMMERMAN, Ph.D., Instructor in Psychology; RICARDO MORANT, Ph.D., Instructor in Psychology.

OBJECTIVES

The graduate program in Psychology leading to the degree of Doctor of Philosophy is designed for students of promise interested in the field of general psychology. Theoretical and experimental studies and research projects rather than formal course training will be emphasized. For the present, training in the more formal professional areas of psychology such as clinical counselling, industrial, etc., is not contemplated. Enrollment will be limited to five or six students per year.

ADMISSION REQUIREMENTS

The general requirements for admission to the Graduate School, as specified in an earlier section of this catalog, apply to candidates for admission to this Area of Studies.

An undergraduate major in psychology will not be absolutely required, although it will be favored. Students with inadequate preparation may make up their deficiencies (without credit) while in residence. Preference will be given to students who have completed, in addition to basic courses in theoretical and experimental psychology, a broad liberal arts program with some training in the natural and social sciences. Students will be admitted on a competitive basis which will include evaluation of previous academic record and the results of the Graduate Record Examinations (Advanced, Aptitude and Profile Tests). Graduate programs will be arranged individually in consultation with faculty members.

PROGRAM OF STUDY

Instruction at the graduate level will be offered each semester as listed below. Graduate students may elect up to six credit units in research and reading during each semester through the residence years. This work is to be done by the individual student outside of class under the direction of a member of the faculty.

AREAS OF GRADUATE STUDIES

Colloquium in Current Literature and Problems (no credit).

Individual Research Projects.

Readings in Psychological Literature.

Seminar in Advanced Psychological Topics I — To be offered each semester by a different member of the psychology staff in rotation. Topics now planned include: Psychological Theory Factor Analysis, Perception and Cognition, and Psychopathology and Psychological Health.

Seminar in Advanced Psychological Topics II — To be offered by a visiting professor on a topic of his choice.

One of the following courses will be offered each semester:

Advanced Psychological Statistics

Approaches to Psychotherapy

Experimental Design

Projective Techniques

In addition, the following courses will be offered at least once every two years. These courses may be taken for credit with permission of the faculty, may be audited, or may be taken without credit to make up deficiencies.

Advanced Experimental Psychology

Advanced Social Psychology

Comparative Psychology

Employment Psychology

Field Work in Clinical and Abnormal Psychology

Genetic Psychology

History and Viewpoints in Psychology

Motivation

Personality

Personnel Psychology

Physiological Psychology

Problem Solving and Learning

Psychology of Emotions

Symbolic Processes and Thinking

Tests and Measurements

RESIDENCE AND THESIS

Ordinarily, a residence of four years will be required for the completion of the Doctor of Philosophy requirements. By the end of the third year, each student will be required to pass a general examination. The doctoral thesis will be planned on an individual basis.

Appendix A

FELLOWSHIPS

ABRAHAM S. AND GERTRUDE BURG FELLOWSHIP FUND (1947)

Established in the name of Abraham S. and Gertrude Burg of Lynn, Massachusetts. The income from this Fund, when completed, is to be used for fellowship purposes.

CAPLAN TEACHING FELLOWSHIP IN MATHEMATICS (1950)

Created at Brandeis University by Mr. H. Caplan of Pittsburgh, Pennsylvania, in memory of Gutman and Rebecca Caplan.

SAMUEL S. CARL TEACHING FELLOWSHIP (1952)

Established by Mr. Samuel S. Carl of Niagara Falls, New York, in memory of Mr. Max Carl. The field of study is to be designated by the President and Board of Trustees of the University.

EMSHEIMER-KANE TEACHING FELLOWSHIP IN HUMANITIES (1951)

A contribution to support a teaching fellowship in Humanities, by Messrs. Louis E. Emsheimer and Irving Kane of Cleveland, Ohio.

MAX FACTOR MEMORIAL TEACHING FELLOWSHIP IN CHEMISTRY (1952)

Established by the Max Factor Memorial Fund of Hollywood, California, to support a teaching fellowship in the field of chemistry.

MARVIN FINEBERG MEMORIAL FELLOWSHIP IN CHEMISTRY (1951)

A memorial fellowship established by the Fineberg family of Pittsburgh, Pennsylvania.

ALEXANDER GOLDSTEIN TEACHING FELLOWSHIP IN SOCIAL SCIENCE (1950)

The income from this \$25,000 fund, when completed, will be used to support a teaching fellowship in the field of social science. Established as a memorial to her brother by Miss Lutie Goldstein of San Francisco, California.

ANNA C. GREENSTONE MEMORIAL FELLOWSHIP (1952)

Established by her children, Mr. Charles R. Greenstone of San Francisco, California, Mr. Stanford M. Green of Cleveland, Ohio, and Mrs. Simon Rubin of New Bedford, Massachusetts. The field of study to be designated by the University.

SIMON AND JOSEPHINE HAHN TEACHING FELLOWSHIP IN PHYSICS (1950)

A teaching Fellowship founded by Mr. S. J. Hahn of Pittsburgh, Pennsylvania, as a memorial to his parents.

HARRY AND ROBERT KANGESSER TEACHING FELLOWSHIP TRUST (1951)

Established by Messrs. Harry A. and Robert Kangesser of Cleveland, Ohio. The income to be used for teaching fellowships.

FELLOWSHIPS

EUGENE R. KULKA TEACHING FELLOWSHIP IN PHYSICS (1951)

Established by Mr. Eugene R. Kulka of Mt. Vernon, New York, to support a teaching fellowship in the field of physics.

LEVINSON TEACHING FELLOWSHIP IN BIOLOGY (1951)

Established by the James and Rachel Levinson Foundation of Pittsburgh, Pennsylvania.

NATHAN AND JOHN LURIE TEACHING FELLOWSHIP (1952)

Established by Messrs. Nathan and John Lurie of Detroit, Michigan. The field of study to be designated by the University.

GABRIEL AND ROSA MUEHLSTEIN TEACHING FELLOWSHIP IN THE PRE-MEDICAL SCIENCES (1951)

Given by Mr. Charles Muohlstein of Chicago, Illinois, in memory of his parents.

BEN OURISMAN TEACHING FELLOWSHIP (1952)

Established as a three-year teaching fellowship by Mr. Ben Ourisman of Washington, D. C., the field of study to be designated by the University.

JULIUS ROSENWALD TEACHING FELLOWSHIPS (1952)

A series of teaching fellowships in memory of the distinguished philanthropist, Julius Rosenwald, established by his daughter, Mrs. Adele Rosenwald Levy, to subsidize the development and teaching of gifted graduate students.

ISRAEL SACHS TEACHING FELLOWSHIP IN SOCIAL RELATIONS (1952)

Established by his wife and children in his memory.

SAMUEL AND RAE SALNY FELLOWSHIP IN SOCIAL REATIONS (1952)

Established by Mr. and Mrs. Samuel M. Salny of Boston, Massachusetts, as a five-year teaching fellowship.

KURT AND HORTENSE SCHWEITZER TEACHING FELLOWSHIP IN AMERICAN CIVILIZATION (1951)

A grant from Mr. and Mrs. Kurt Schweitzer of Oklahoma City, Oklahoma, to support a teaching fellowship in the field of American civilization.

MONA BRONFMAN SHECKMAN MEMORIAL TEACHING FELLOWSHIP (1952)

A grant from the Mona Bronfman Sheckman Memorial Foundation of New York City to support a graduate teaching fellowship.

SILBERSTEIN TEACHING FELLOWSHIP IN PHYSICS (1950)

Mr. and Mrs. J. R. Silberstein of Pittsburgh, Pennsylvania, have made a grant to Brandeis University to support a graduate teaching fellowship.

RALPH AND JOSEPHINE SINSHEIMER TEACHING FELLOWSHIP IN PHYSICS (1950)

A Teaching Fellowship established by Mr. S. J. Hahn of Pittsburgh, Pennsylvania, in memory of Ralph and Josephine Sinsheimer.

SOLAR STEEL CORPORATION CHARITABLE AND EDUCATIONAL FOUNDATION TEACHING FELLOWSHIP (1951)

Established by the Solar Steel Corporation of Cleveland, Ohio. The field of study is to be designated by the President and the Board of Trustees of the University.

CARRIE WIENER TEACHING FELLOWSHIP (1950)

The interest from this \$25,000 fund, when completed, is to be used for the establishment of a fellowship in a field of study designated by the President and Board of Trustees of the University. Established by Herman Wiener of Toledo, Ohio, in the name of his wife.

I. M. WEINSTEIN TEACHING FELLOWSHIP (1952)

A teaching fellowship established by Mr. I. M. Weinstein of Atlanta, Georgia, the field of study to be designated by the President and the Board of Trustees of the University.

BENJAMIN YEAGER TEACHING FELLOWSHIP (1952)

Established by Mr. Benjamin Yeager of Sullivan County, New York, for a teaching fellowship in a field of study to be designated by the President and the Board of Trustees of the University.



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